

Nu-Metrics Traffic Analyzer Study

Computer Generated Summary Report

City: City of Fairfax

Street: Orchard Dr. #9 Red

A study of vehicle traffic was conducted with HI-STAR unit number 6273. The study was done in the South Bound lane on Orchard Dr. using counter #9 Red as shown on attached drawing. The counter was placed 25 Ft. from Dwight Ave. The study began on 12/02/2003 at 12:00 PM and concluded on 12/05/2003 at 09:00 AM, lasting a total of 69 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 1,314 vehicles passed through the location with a peak volume of 50 on 12/04/2003 at 05:00 PM and a minimum volume of 0 on 12/04/2003 at 01:00 AM. The AADT Count for this study was 610.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1									
0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 >
0	18	141	483	373	95	23	24	21	25

At least half of the vehicles were traveling in the 20 - 24 mph range or a lower speed. The average speed for all classified vehicles was 25 mph with 46.6 percent exceeding the posted speed of 25 mph. The HI-STAR found 7.73 percent of the total vehicles were traveling in excess of 35 mph. The mode speed for this traffic study was 20 mph and the 85th percentile was 30.40.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2							
0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
1119	50	9	3	1	2	3	16

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 1,169 which represents 97.20 percent of the total classified vehicles. The number of Small Trucks in the study was 9 which represents 0.70 percent of the total classified vehicles. The number of Trucks/Buses in the study was 3 which represents 0.20 percent of the total classified vehicles. The number of Tractor Trailers in the study was 22 which represents 1.80 percent of the total classified vehicles.

HEADWAY

During the peak time period, on 12/05/2003 at 09:00 AM the average headway between the vehicles was

8.28 seconds. The slowest traffic period was on 12/04/2003 at 01:00 AM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 33 and 68 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.